



4A51

6P/2825#2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Karen Chess, et al

Attorney Docket No.: 831.003-1

Application No.: 10/026,332

Group No.: 2825

Filed: December 21, 2001

Examiner: To be assigned

For: **HARDWARE-ADAPTABLE DATA VISUALIZATION TOOL FOR USE IN
COMPLEX DATA ANALYSIS AND ENGINEERING DESIGN**

Assistant Commissioner for Patents
Washington, DC 20231

RECEIVED

SEP 10 2002

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits herewith references of which they are aware, which they believe may be material to the examination of this application and in respect of which they may have a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Jodie Droniak 3/22/02
Jodie Droniak Date

6



Attorney Docket No. 831.003-1
Serial No. 10/026,332

A PTO-1449 with cited references is enclosed.

Of the art cited, applicants wish to draw attention in particular to an abstract entitled Parallel CFD-Simulations in a Collaborative Software Environment Using European ATM Networks, by D. Rantzan and P. Thomas, (1997), Institution for Electrical Engineers, Proceedings of the Parallel Computational Fluid Dynamics 1996 Conference, and also to U.S. Pat No.'s 5,742,293 to Koyamada et al, 5,877,777 to Colwell, 5,537,641 to da Vitoria Lovo et al, 5,914,715 to Sasaki, 5,742,293 to Koyamada et al, and 5,971,026 to Beran (lines 31-67 of col. 5).

Respectfully submitted,

Date: March 21, 2002

Reg. No.: 41,266

Telephone No.: (203) 261-1234

Customer No.: 004955

James A. Retter

Ware, Fressola, Van Der Sluys
& Adolphson LLP
Bradford Green, Building Five
755 Main Street, P.O. Box 224
Monroe, CT 06468

RECEIVED
MAR 28 2002
TECHNOLOGY CENTER 2800

RECEIVED
SEP 10 2002
Technology Center 2100



FORM PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 831-003-1	SERIAL NO. 10/026,332
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Chess et al.	
(Use several sheets if necessary)		FILING DATE Dec. 21, 2001	GROUP 2825

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3 9 0 0 5 5 4	8/19/1975	Lyon			
	4 2 0 8 3 8 6	6/17/1980	Arand et al.			
	4 7 7 7 0 2 4	10/11/1988	Epperly et al.			
	4 7 8 0 2 8 9	10/25/1988	Epperly et al.			
	4 9 5 4 0 7 6	9/4/1990	Fioravanti et al.			
	5 3 1 5 5 3 0	5/24/1994	Gerhardt et al.			
	5 3 3 6 0 8 1	8/9/1994	Saito et al.			
	5 4 0 2 3 6 6	3/28/1995	Kihara et al.			
	5 5 3 7 6 4 1	7/16/1996	da Vitoria Lobo et al.			
	5 5 7 2 4 3 9	11/5/1996	Nishida et al.			
	5 6 0 4 6 8 7	2/18/1997	Hwang et al.			

RECEIVED
SEP 10 2002
Technology Center 2100

FOREIGN PATENT DOCUMENTS

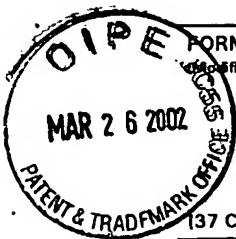
	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	JOHNSON, Christopher R., et al. "Large-Scale Computational Science Applications Using The SCIRun Problem Solving Environment", June 2002, Conf. Title: 17th International Supercomputer Conference, Heidelberg, Germany, pp 1-19.
	RANTZAU, D., et al. "Parallel CFD-Simulations in a Collaborative Software Environment Using European ATM Networks", 1996 IEEE. Conf. Title: Proceedings of Parallel CFD '96 held May 1996 in Capri, Italy, pp.259-265.
	TSOU, Jin-Yeu, "Strategy On Applying Computational Fluid Dynamics For Building Performance Evaluation", March 2001, (Netherlands), Journal: Automation in Construction, Vol. 10, No. 3, pp.327-335.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT
AND TRADEMARK OFFICE

ATTY. DOCKET NO.

831-003-1

SERIAL NO.

10/026,332

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT

Chess et al.

FILING DATE

Dec. 21, 2001

GROUP

2825

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 6 0 4 8 9 1	2/18/1997	Burnett et al.			
	5 6 0 4 8 9 3	2/18/1997	Burnett et al.			
	5 6 0 6 5 1 7	2/25/1997	Traub et al.			
	5 6 4 0 3 3 5	6/17/1997	Molvig et al.			
	5 6 9 9 2 8 4	12/16/1997	Muramatsu			
	5 7 3 2 1 9 2	3/24/1998	Malin et al.			
	5 7 4 2 2 9 3	4/21/1998	Koyamada et al.			
	5 7 4 6 1 4 4	5/5/1998	Breen et al.			
	5 8 0 1 9 6 9	9/1/1998	Nagahama			
	5 8 0 9 9 1 3	9/22/1998	Kramer et al.			
	5 8 3 5 3 7 9	11/10/1998	Nakano			

RECEIVED
SEP 10 2002
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	J.	FENLON, A.J., et al., "An Integrated Visualization And Design Toolkit For Flexible Prosthetic Heart Valves", 2000 IEEE, Conf. Title: Proceedings Visualization 2000. VIS 2000, (USA), IEEE Cat.No. 00CH37145. pp.453-456, 588.
	J	STOUT, P. et al., "CFD-ACE+MEMS: A CAD Syst. For Simulation And Modeling Of MEMS", 1999 (USA), Journal: Proceedings of the SPIE-The Int.Soc.for Optical Eng./Conf.Title: Proc. SPIE-Int. Soc. Opt. Eng. Vol.3680, pt.1-2, pp.328-339.
	J	SCHULZ, M., et al., "Interactive Visualization Of Fluid Dynamics Simulations In Locally Refined Cartesian Grids", 1999. (USA), Conf. Title: Proceedings Visualization '99, IEEE Cat. No. 99CB37067, pp. 413-553.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


 FORM PTO-1449
(Modified)

 U.S. DEPARTMENT OF COMMERCE PATENT
AND TRADEMARK OFFICE

 INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO.

831-003-1

SERIAL NO.

10/026,332

APPLICANT

Chess et al.

FILING DATE

Dec. 21, 2001

GROUP

2825

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 8 3 5 3 8 6	11/10/1998	Orr et al.			
	5 8 7 7 7 7 7	3/2/1999	Colwell			
	5 8 9 4 8 0 6	4/20/1999	Smyrniotis et al.			
	5 9 1 0 9 0 2	6/8/1999	Molig et al.			
	5 9 1 4 7 1 5	6/22/1999	Sasaki			
	5 9 2 6 3 9 9	7/20/1999	Berkooz et al.			
	5 9 3 1 4 5 9	8/3/1999	Landgren			
	5 9 3 4 8 9 9	8/10/1999	Joshi et al.			
	5 9 4 0 3 0 9	8/17/1999	White et al.			
	5 9 7 1 0 2 6	10/26/1999	Beran			
	5 9 9 1 5 2 6	11/23/1999	Igarashi			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

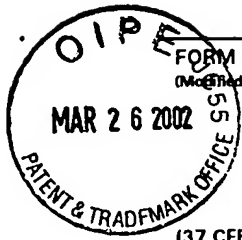
0	LOHNER, R., et al., "The Numerical Simulation of Strongly Unsteady Flow With Hundreds Of Moving Bodies", Sept. 1999, Journal: Int. Journal for Numer. Methods Fluids Conference, (UK), Vol. 31, No. 1, pp.113-120.
4	NGUYEN, L.T., et al., "A CAD-Based Flow Modeling Tool For Plastic IC Encapsulation", 1997 (USA), Conf. Title: Advances in Electronic Packaging 1997. Proceedings of InterPACK'97, Part Vol. 1, pp. 245-252 Vol.1.
7	ST. JOHN, P.M., et al., "Metrology And Simulation Of Chemical Transport In Microchannels", 1998 (USA), , Conf. Title: Technical Digest. Solid-State Sensor And Actuator Workshop, pp.106-111.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 RECEIVED
SEP 10 2002
Technology Center 2100

FORM PTO-1449
(Mod 3)U.S. DEPARTMENT OF COMMERCE PATENT
AND TRADEMARK OFFICE

ATTY. DOCKET NO.

831-003-1

SERIAL NO.

10/026,332

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT

Chess et al.

FILING DATE

Dec. 21, 2001

GROUP

2825

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 9 9 3 0 4 9	11/30/1999	Sheldon			
	6 0 3 0 2 0 4	2/29/2000	Breen et al.			
	6 0 7 6 0 4 8	6/13/2000	Gunther et al.			
	6 0 8 9 7 4 4	7/18/2000	Chen et al.			
	6 0 9 0 1 4 8	7/18/2000	Weber et al.			
	6 0 9 3 2 1 1	7/25/2000	Hamielec et al.			
	6 0 9 6 0 8 8	8/1/2000	Yu et al.			
	6 1 7 1 1 0 0	1/9/2001	Joshi et al.			
	6 1 7 6 8 7 6	1/23/2001	Shipkowitz et al.			
	6 2 1 0 1 5 1	4/3/2001	Joshi et al.			
	5 6 0 8 8 6 1	3/4/1997	Mead et al.			

RECEIVED
SEP 10 2002
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	8	CHEN, C.L., et al., "Thermal Analysis Design Tool For Parallel Plate Heatsinks", 1998 (USA), Conf. Title: ITHERM'98. Sixth Intersociety Conf. on Thermal and Thermomechanical Phenomena in Electronic Systems, IEEE Cat.No.98CH36208, pp.371-377.
	11	AGONAFER, D., et al., "Solid Model Based Preprocessor to CFD Code For Applications To Electronic Cooling Systems", 1997 (USA), Journal: Transactions of the ASME. Journal of Electronic Packaging, Vol. 119, No. 2, pp.138-143.
	1	HERNANDEZ, S., et al., "Proceedings of 2nd Int. Conf. On Visualization Tools For Intelligent Design in Eng. and Architecture", 1995 Spain, Conf. Title: Proceedings of 2nd Int. Conf. on Vis. Tools for Intell. Des. in Eng. and Arch., 271 pp.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

A circular stamp from the Office of Intellectual Property (OIP). The text "OIP" is at the top, "JCS 3301" is on the right, "MAR 26 2002" is in the center, and "PATENT & TRADEMARK OFFICE" is at the bottom. The number "130" is written below the stamp.

RECEIVED
SEP 10 2002
Technology Center 2100

[illegible]

	d	NI, J., et al., "Geometrical Animation And Numerical Visualizations for CAD And CFD Of Hydraulic Coupling", August 1993
		in Beijing, China, Conf.Title: Proceedings of 3rd International Conference on CAD & CG, pp.855-860, Vol. 2.
	d	HAIMES, R., et al., "Visualization In Computational Fluid Dynamics: A Case Study", Oct. 1991 (USA), IEEE/ACM, Conf.
		Title: Proceedings Visualization '91, Cat.No. 91CH3046-0, pp.392-397, 436.
	d	LEGENSKY, S.M., "Advanced Visualization On Desktop Workstations", Oct. 1991 (USA), IEEE/ACM, Conf. Title:
		Proceedings Visualization '91, Cat.No. 91CH3046-0, pp.372-378, 435.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

